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1 A taxonomy of Data Grids for distributed data sharing, management, and processing

Sukumar Venugopal, Sukumar Rayas, Koteswara RamaRao

June 2006

Computing Surveys (CSUR) , Volume 38 Issue 1

Publisher: ACM → Request Permissions

Full text available (1.70 MB)

Bibliometrics Downloads (6 Weeks): 96, Downloads (12 Months): 863, Downloads (Overall): 6494, Citation Count: 10

Data Grids have been adopted as the next generation platform by many scientific communities that need to share access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance ...

Keywords Grid computing, data-intensive applications, replica management, virtual organizations

2 A Review of the Rationale and Architectures of Plasma, a Durable, Flexible, Evolvable and Scalable Orthogonally Persistent Programming Platform

Malcolm Atkinson, Marc Jordan

June 2000

A Review of the Rationale and Architectures of Plasma, a Durable, Flexible, Evolvable and Scalable Orthogonally Persistent Programming Platform

Publisher: Sun Microsystems, Inc.

Full text available (455.97 KB)

Bibliometrics Downloads (6 Weeks): 0, Downloads (12 Months): 0, Downloads (Overall): 173, Citation Count: 7

A primary goal of research into orthogonal persistence is to simplify significantly the construction, maintenance & operation of applications in order to save software costs, extend the range of applications and improve users' experiences. To test ...

3 A review of smart homes-Present state and future challenges

Marcos Chiar, Daniel Esteve, Christopher Escriba, Eric Campa

July 2006

Computer Methods and Programs in Biomedicine , Volume 91 Issue 1

Publisher: Elsevier North-Holland, Inc.

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 6

In the era of information technology, the elderly and disabled can be monitored with numerous intelligent device Sensors can be implanted into their home for continuous mobility assistance and non-obtrusive disease prevention. Modern sensor-embedded ...

Keywords Elderly people, Smart home

4 Scientific Papers

Staff

December 2003

Technology and Health Care , Volume 11 Issue 5

Publisher: IOS Press

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

5 Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)

January 1999

Supercomputing '99: Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

6 Information fusion for wireless sensor networks: Methods, models, and classifications

Eduardo F. Nakamura, Antonio A. F. Loureiro, Alejandro G. Frery

September 2007

Computing Surveys (CSUR) , Volume 39 Issue 3

Publisher: ACM → Request Permissions

Full text available (1.20 MB)

Bibliometrics Downloads (6 Weeks): 285, Downloads (12 Months): 2543, Downloads (Overall): 9528, Citation Count 0

Wireless sensor networks produce a large amount of data that needs to be processed, delivered, and assessed according to the application objectives. The way these data are manipulated by the sensor nodes is a fundamental issue. Information fusion arises.

Keywords: information fusion, architectures and models, data aggregation, data fusion, wireless sensor networks

7 Communications of the ACM: Volume 51 Issue 12

December 2008

Communications of the ACM

 Publisher: ACM

Full text available  Digital Edition,  Full (6.91 MB)

Bibliometrics Downloads (6 Weeks): 265, Downloads (12 Months): 300, Downloads (Overall): 4032, Citation Count 0

8 Data fusion and topology control in wireless sensor networks

Vinoda Gupta, Balaji Pradeep

April 2008

WEAS Transactions on Signal Processing, Volume 4 Issue 4

 Publisher: World Scientific and Engineering Academy and Society (WEAS)

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count 2

The design of large-scale sensor networks interconnecting various sensor nodes has spurred a great deal of interest due to its wide variety of applications. Data fusion is a critical step in designing a wireless sensor network as it handles data acquired ...

Keywords: data aggregation, data fusion, protocols, topology control, wireless sensor networks

9 Participation through communicative action: A case study of GIS for addressing land/water development in India

S. K. Puri, Sundappa Sabay

July 2003

Information Technology for Development, Volume 10 Issue 3

 Publisher: IOS Press

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count 2

Attempts to alleviate land degradation and water scarcity in arid/semi-arid regions of India have historically been carried out within the ambit of government schemes implemented disparately by concerned departments. These sectoral methods are being ...

Keywords: Communicative Action, Gis In Rural Development, Habermas, Ideal Speech Situation, India, Indigenous Knowledge, Knowledge, Land Degradation, User Participation

10 Integration of GIS, GPS, and optimization technologies for the effective control of parcel delivery service

Hoon Jung, Heumwoon Lee, Wooswan Choi

September 2008

Computers and Industrial Engineering, Volume 51 Issue 1

 Publisher: Pergamon Press, Inc.

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count 0

An intelligent monitoring and control system for parcel delivery service is described in this paper. To manage pick and delivery operations more effectively, geographical information system (GIS), global positioning system (GPS) and wireless communication ...

Keywords: Delivery service, GIS, Monitoring, Scheduling

11 A survey of urban vehicular sensing platforms

Sihmin Lee, Maria Gerla

March 2010 **Computer Networks: The International Journal of Computer and Telecommunications Networking**, Volume 54 Issue 4

 Publisher: Elsevier North-Holland, Inc

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count 0

Vehicular sensing where vehicles on the road continuously gather, process, and share location-relevant sensor data (e.g., road condition, traffic flow) is emerging as a new network paradigm for sensor information sharing in urban environments. Recently,

Keywords: Comparative evaluation, Survey, Vehicular sensor networks

12 Efficient profile aggregation and policy evaluation in a middleware for adaptive mobile applications

Claudio Bertoli, Linda Pareschi, Daniela Bressi

October 2008 **Pervasive and Mobile Computing**, Volume 4 Issue 5
 Publisher: Elsevier Science Publishers B. V.
 Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 2

There is a large consensus on the need for a middleware to efficiently support adaptation in pervasive and mobile computing. Advanced forms of adaptation require the aggregation of context data and the evaluation of policy rules that are typically provided ...

Keywords Adaptation, Context-awareness, Mobile middleware, Rule-based reasoning

13 **Using hierarchical location names for scalable routing and rendezvous in wireless sensor networks**
 Fang Bian, Xin Li, Ramash Govindaraj, Scott Shenker
 July 2006 **International Journal of Ad Hoc and Ubiquitous Computing**, Volume 1 Issue 4
 Publisher: InderScience Publishers

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0
 Until practical ad-hoc localisation systems are developed, early deployments of wireless sensor networks will manually configure location information in network nodes in order to assign spatial context to sensor readings. In this paper, we argue

Keywords HLI, HLR, area routing, broadcast, data-centric routing primitives, hierarchical location identifiers, hierarchical location routing, scalable rendezvous, scalable routing, scoped anycast, sensor networks, simulation, unicast, wireless networks

14 **A self-organised middleware architecture for Wireless Sensor Network management**
 Mengye Yu, Hala Mokhtar, Madjid Merabti

May 2008 **International Journal of Ad Hoc and Ubiquitous Computing**, Volume 3 Issue 3
 Publisher: InderScience Publishers
 Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

In this paper, we propose a lightweight middleware system that supports Wireless Sensor Networks (WSNs) to handle real-time network management using a hierarchical framework. The primary objective of this middleware is to provide standard ...

Keywords WSNs, energy efficiency, network management, node energy consumption, power management, self-managed sensor networks, self-organised middleware, sensor nodes, wireless networks

15 **INFORM: integrated flow orchestration and meta-scheduling for managed grid systems**
 Geetul B. Dasgupta, Balaji Viswanathan

November 2007 **MC '07: Proceedings of the 2007 ACM/IFIP/USENIX international conference on Middleware** companion
 Publisher: ACM
 Full text available: [PDF](#) (1.12 MB)
 Bibliometrics Downloads (6 Weeks): 1, Downloads (12 Months): 35, Downloads (Overall): 103, Citation Count: 1

The execution of workflow applications is a reality today in enterprise and scientific grid domains. The core middleware technologies for grids (e.g. meta-schedulers) contain sophisticated resource matching logic, but lack control flow orchestration ...

Keywords JSDL, WS-BPEL, data scheduling, grid, meta-scheduler, workflow orchestrator/chorography

16 **SIP-based IEEE802.21 media independent handover: a BT Intel collaboration**
 K.N. Cheung, V.S. Kazaxian, S.L. Ng, F. Carvalho, A.L. Low, G. Macikosz

April 2007 **BT Technology Journal**, Volume 25 Issue 2
 Publisher: Kluwer Academic Publishers
 Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

In this paper, we look at various mobility management protocols and handover frameworks in use in BT. We also report on the results from a collaborative proof of concept mixed network prototype for a seamless handover system using Intel's early implementation ...

17 **Wireless sensor network survey**

Jennifer Yick, Bawansita Mukherjee, Dinkar Grover
 August 2008 **Computer Networks: The International Journal of Computer and Telecommunications Networking**, Volume 52 Issue 12
 Publisher: Elsevier North-Holland, Inc.
 Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 3

A wireless sensor network (WSN) has important applications such as remote environmental monitoring and target tracking. This has been enabled by the availability, particularly in recent years, of sensors that are smaller, cheaper and intelligent. These ...

Keywords Protocols, Sensor network deployment, Sensor network services, Survey, Wireless sensor network

18 Oral Presentations

Staff

June 2001

Publisher: IOS Press

Technology and Health Care, Volume 9 Issue 4

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

19 Lineage retrieval for scientific data processing: a survey

Rajendra Rose, James Few

March 2005

Computing Surveys (CSUR), Volume 37 Issue 1

Publisher: ACM  [Readers' Reviews](#)

Full text available  [PDF](#) (728 75 KB)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 319, Downloads (Overall): 1888, Citation Count: 0

Scientific research relies as much on the dissemination and exchange of data sets as on the publication of conclusions. Accurately tracking the lineage (origin and subsequent processing history) of scientific data sets is imperative for the complete ...

Keywords Data lineage, audit, data provenance, scientific data, scientific workflow

20 Toward improved geographic information services within a digital government: report of the NSF digital government initiative geographic information systems workshop

Louis Hecht, Barbara Kucera

May 2000

dg.o '00: Proceedings of the 2000 annual national conference on Digital government research

Publisher: Digital Government Research Center

Full text available  [PDF](#) (531.35 KB)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 47, Downloads (Overall): 468, Citation Count: 0

This material is based upon work supported in part by the National Science Foundation under Grant No. EIA-9818131. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect ...

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